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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/766,267	01/19/2001	Wen Tong	11962ROUS02U	1339
7	590 08/25/2005		EXAM	INER
Bruce E. Garlick			NGUYEN, HANH N	
Garlick & Harr	rison			
P.O. Box 691			ART UNIT	PAPER NUMBER
Spicewood, TX 78669-0691			2662	
			DATE MAILED: 08/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
0554.450	09/766,267	TONG ET AL.				
Office Action Summary	Examiner	Art Unit				
	Hanh Nguyen	2662				
The MAILING DATE of this commun. Period for Reply	ication appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNION - Extensions of time may be available under the provisions after SIX (6) MONTHS from the mailing date of this common - If the period for reply specified above, the maximum state of the period for reply is specified above, the maximum state - Failure to reply within the set or extended period for reply Any reply received by the Office later than three months at earned patent term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). In no event, however, may a re nunication. 0) days, a reply within the statutory minimum of thirty stutory period will apply and will expire SIX (6) MONT will, by statute, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) file	d on Appeal filed on 06/07/05					
	2b)⊠ This action is non-final.					
3) Since this application is in condition	<u> </u>					
Disposition of Claims						
4) Claim(s) 1-24 is/are pending in the a 4a) Of the above claim(s) is/are 5) Claim(s) is/are allowed. 6) Claim(s) 1-24 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restrict	re withdrawn from consideration.					
Application Papers						
9) The specification is objected to by the 10) The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including 11) The oath or declaration is objected to	a) accepted or b) objected to be ction to the drawing(s) be held in abeyand the correction is required if the drawing(s	ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim a a) All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies	documents have been received. documents have been received in Aport the priority documents have been and Bureau (PCT Rule 17.2(a)).	oplication No received in this National Stage				
Attachment(s)						
1) Motice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (P	4) Interview Su	ummary (PTO-413)				
 Notice of Draftsperson's Patent Drawing Review (P' Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 	PTO/SB/08) Paper No(s) 5) Notice of Inf 6) Other:)/Mail Date formal Patent Application (PTO-152) 				

DETAILED ACTION

Reopen Prosecution

In view of the Appeal Brief filed on 6/7/05, PROSECUTION IS HEREBY REOPENED.

A new ground of rejection is set forth below.

To avoid abandonment of the application, appellant must exercise one of the following two options:

- (1) file a reply under 37 CFR 1.111 (if this Office action is non-final) or a reply under 37 CFR 1.113 (if this Office action is final); or,
 - (2) request reinstatement of the appeal.

If reinstatement of the appeal is requested, such request must be accompanied by a supplemental appeal brief, but no new amendments, affidavits (37 CFR 1.130, 1.131 or 1.132) or other evidence are permitted. See 37 CFR 1.193(b)(2).

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1 and 8 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 6,917,603 B2. Although

the conflicting claims are not identical, they are not patentably distinct from each other because claims 1 and 8 of the instant application discloses repeatedly and sequentially wirelessly transmitting time division multiplexed slots to the plurality of users; while claim 1 of the Patent discloses repeatedly and sequentially wirelessly transmitting time division multiplexed superframes to the plurality of users. Therefore, it would have been obvious to one skilled in the art to either transmit TDM slots or superframes to the plurality of users because transmitting the TDM slots can occupy in more than one frames.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 2, 6, 8, 9, 13, 15 and 16 are rejected under 35 USC 102(e) as being anticipated by Mochizuki (US pat. No. 6,628,633 B1).

Application/Control Number: 09/766,267

Art Unit: 2662

Page 4

In claims 1, 8, 15, Mochizuki discloses a method for operating a base station to wirelessly transmit data communications to a plurality of user terminals on a single wireless carrier(see fig. 1), the method comprising repeatedly and sequentially (wirelessly transmitting time division multiplexed superframes to the plurality of user terminals, (fig.5 discloses transmitting frames T1-T5 to terminals 1 and 2, col.8, lines 15-30); wherein each time division multiplex superframe comprises a plurality of high speed data frames (information comprised in frames is multimedia such as audio, image, data, see col.6, lines 55-60); wherein each of the high speed data frames carries at least one data communication (fig.5, frame T4 carries data for terminal 2; frame T5 carries data for terminal 1, col.8, lines 25-30); and wherein each of the high speed data frames includes a respective indication of at least one user terminal for which the at least one data communication is intended (see fig.3, destination address attached to the forward packet so that mobile terminal checks the destination address to determine whether the forward packet is a packet of its own destination, see col.7, lines 30-35 & col.8, lines 60-67); and a respective indication of at least one data rate (spreading of a short code for high transmission rate R3) of the high speed data frame (in frame T4 (fig.5)). See col.7, lines 55 to col.8, line 5.

In claims 2 and 9, Mochizuki discloses, in Fig.5, supporting a plurality of data rates within high peed data frame (See col.8, lines 22-30).

In claim 16, Mochizuki discloses further comprising determining a data rate of the data communication from an indication contained in the high speed data frame; and receiving the data communication at the data rate (each mobile despreads s spectrum of forward signal using forward spread codes for the transmission rates R1, R2, R3 (fig.5) to monitor and determine

whether the transmitted data are for its own destination in reference with the destination address therein, see col.8, lines 60-67).

In claims 6 and 13, Mochizuki discloses each of the high speed data frames of the superframe further includes a pilot signal; and a plurality of reverse link power control bits intended for the plurality of user terminals (base station adjusts the transmission power of forward packet and sends a power control signal to the mobile terminal, see col.11, lines 30-42). Therefore, the power control signal is well-known in the art to include a pilot signal and power control bits.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7 and 14 are rejected under 35 USC 103(a) as being unpatentable over Mochizuki (US pat. No. 6,628,633 B1) in view of Jarbot et al. (Pat. 6,816,507 B1).

In claims 7 and 14, Mochizuki dose not disclose the claimed limitations. Jabot et al. discloses a high speed data frame (fig.3, slot ZSS2 of frame ZR) includes both a primary explicit data rate indicator (a first TFCI sequence) and a secondary explicit data rate indicator (a second TFCI sequence); wherein the primary explicit data rate indicator (the first TFCI sequence) indicates a user terminal (a first user data sequence NDS1) of the plurality of user terminals for

which a first portion of the high speed data frame is intended; and a data rate (the first TFCI sequence) for the first portion (a first part in the slot) of the high speed data frame; and wherein the secondary explicit data rate indicator (the second TFCI sequence) indicates a user terminal of the plurality of user terminals (a second data users sequence NDS2) for which a second portion of the high speed data frame is intended. See col.3, lines 50-67&col.4, lines 1-20 & col.3, lines 22-25. Therefore, it would have been obvious to one ordinary skilled in the art to comprise the first data user, a first data rate into the primary explicit data rate indicator; the second data user , the second data rate into the secondary explicit data rate indicator of the high speed data frame in Mochizuki in order to transmit high speed data in frames to multiple terminals.

Claims 21-24 are rejected under 35 USC 103(a) as being unpatentable over Mochizuki (US pat. No. 6,628,633 B1) in view of Hunsberger (US pat. 6,167,282).

In claims 21, 22, 23 and 24 as explained by the rejection of claim 1, Mochizuki further discloses the base station (fig.8) comprising an antenna 501 (antenna); circular 502 coupled to the antenna 501 (RF unit coupled to the antenna); packet control apparatus 530 (at least one digital processor). Mochizuki does not explicitly disclose the digital processor (the packet control processor 530) executing software instructions causing the base station to perform the above steps. Hunsberger discloses, in fig.2, a base station 200 comprising a processor 203. The processor 203 executes software instructions stored in memory 204 in order to perform various tasks including transmit/receive signal via a transceiver 202 of base station 200. See col.3, lines 22-40. Therefore, it would have been obvious to one ordinary skilled in the art to store software

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instructions taught by Hunsberger into the memories 551-553 (fig.9) of Mochizuki in order to perform required claimed limitations.

Claims 3-5, 10-12, and 17-20 are rejected under 35 USC 103(a) as being unpatentile over Mochizuki (US pat. 6,628,633 B1) in view of Rydbeck et al. (US Pat. No.6,332,006 B1),

In claims 3, 4, 5, 10, 11 and 12, Mochizuki does not disclose different coding types, coding frames with Walsh codes; and modulation scheme within a frame. Rydbeck et al. discloses, in Fig.6a, a base station 610 encodes data message (high rate data), voice messages (low rate data) by a convolution coding, Walsh coding (coding messahe by first coding type, second coding type) before transmitting to subscriber 650. The encoded messages is Pi/4-DQPSK modulated before being transmitted to the subscriber 650 (modulating scheme). See col.10, lines 5-25 & col.11, lines 35-45. Therefore, it would have been obvious to one ordinary skilled in the art to combine the encoding methods of Rydbeck et al. into Mochizuki in order to reduce error and protect confidential data from being detected by undesired receivers.

In claims 17 and 18, Mochizuki discloses receiving data of the frame; and determine that the data frame is intended for the user terminal in claim 15. Mochizuki does not disclose decoding a portion of superframe with Walsh codes; decoding data frame using a first coding type; decoding data in frame using a second coding type. Rydbeck et al. discloses, in Fig.6B, the subscriber 650 receiving encoded messages, demodulates the messages as in Fig.5B (first decoding type); decodes the messages by Walsh transform 652 (second decoding type). See col.10, lines 33-45. Therefore, it would have been obvious to one ordinary skill combine the decoding technics of Rydbeck et al. into Mochizuki in order to determine whether the transmitted data is intended to the terminal.

Application/Control Number: 09/766,267 Page 8

Art Unit: 2662

In claims 19 and 20, the limitations of these claims have been adressed in claims 1 and

15.

Response to Arguments

Applicant's arguments with respect to claims 1-24 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hanh Nguyen whose telephone number is 571 272 3092. The

examiner can normally be reached on Monday-Friday from 8AM to 5PM. The examiner can

also be reached on alternate

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hassan Kizou, can be reached on 571 272 3088. The fax phone number for the

organization where this application or proceeding is assigned is 571 272 3092.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hanh Nguyen

ugust 25, 200;

HANH NGUYEN PRIMARY EXAMINER